

Although a subscriber is identified by using a subscriber's ID number in the fourth exemplary embodiment of the present invention, a unique ID number of the recording/reproducing apparatus itself may be used instead of the subscriber's ID number. Similar effect is obtained in an information on demand system that an owner of the write/read device is discriminated from the unique ID number of the recording/reproducing apparatus itself and the charge is collected from the owner of the recording/reproducing apparatus.

The system can be also composed so that the server registers the title name of the program for a particular program and when the subscriber wants to write the title name, the terminal controller can check at the terminal controller if the subscriber is requesting a server's approval.

5 The charging system can be made so that the information can be reproduced by only a recording/reproducing apparatus which was used to record the audio/video information and by any other reproducing apparatus. In this case, the system is composed so that the descramble apparatus is
 0 connected to an arbitrary reproducing apparatus, the descramble apparatus certifies whether the medium in which the information was written has an approved ID number and only when reading from the medium certified by the descramble apparatus, the descramble apparatus performs
 5 normally.

According to an information on demand system in accordance with exemplary embodiments of the present invention, when a copy without any deterioration of sound/picture quality is made, a different charging system from
 3 usual charge can be set. Especially, when an analog signal is outputted to a recording/reproducing apparatus as they are, an audio/video information having almost same quality as the server's information is recorded in a recording medium of the recording/reproducing apparatus and it is significant
 5 to provide with three charging systems.

Because programs and informations are always recorded/written in recording medium based on a subscriber's ID number and a recording/reproducing apparatus ID number, it is possible to restrict a recording/reproducing apparatus
 1 used at reproducing.

The invention may be embodied in other specific form without departing from the spirit or essential characteristics thereof. The present embodiment is therefore to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description and all changes which come within the meaning and range of equivalency of the claims are therefore intended to be embraced therein.

What is claimed:

1. An information on demand system comprising:
 a server apparatus for providing information according to a request from a subscriber;
 display means for displaying said information provided by said server apparatus; and
 recording means for recording said information provided by said server apparatus;
 wherein a different amount is charged to said subscriber among a) in the case in which said information is provided to said display means, b) in the case in which said information is provided to said recording means and c) in the case in which said information is provided to said display means and to said recording means.
2. An information on demand system comprising:
 information providing means for providing information according to a request from a subscriber;

information receiving means for receiving said information provided by said information providing means;

display means for displaying a further information signal output from said information receiving means;

recording means for recording said further information signal of said information receiving means;

subscriber mode discriminating means for discriminating whether said further information signal of said information receiving means is provided to one of said display means and said recording means;

charging means for charging a different amount among a) in the case in which said further information is provided to said display means. b) in the case in which said further information is provided to said recording means and c) in the case in which said further information is provided to said display means and to said recording means according to an output of said subscriber mode discriminating means; and.

charge registering means for registering charge data output from said charging means.

3. A server apparatus comprising:

subscriber identification means for reading an identifying information to identify a subscriber;

information providing means for providing information according to a request from said subscriber;

subscriber mode recognizing means for discriminating whether said information providing means provides said information a) to a subscriber display means. b) to a subscriber recording means or c) to said subscriber display means and said subscriber recording means;

charging means for charging a different amount among a) in the case in which said information is provided to said subscriber display means. b) in the case in which said information is provided to said subscriber recording means and c) in the case in which said information is provided to said subscriber display means and to said subscriber recording means according to an output of said subscriber mode recognizing means; and

charge registering means provided for every subscriber for registering a charge data output from said charging means; and wherein said charge registering means accumulates the charge data output from said charging means at said charge registering means corresponding to said identifying information according to a discriminating information discriminated at said subscriber identification means.

4. A server apparatus comprising:

provided information designating means for providing information requested by a subscriber to a server;

information receiving means for receiving said information provided by said server according to said subscriber request;

subscriber mode discriminating means for discriminating whether an information signal output from said information receiving means is provided a) to a display means. b) to a recording means or c) to both the display means and the recording means and informing said subscriber through said information receiving means.

5. A subscriber apparatus comprising:

information receiving means for receiving a provided information according to a request from a subscriber;

subscriber mode discriminating means for discriminating whether a further information signal output from said information receiving means is provided a) to a display

means. b) to a recording means or c) to both said display means and said recording means;

charging means for charging a different amount among a) in the case in which said further information is provided to said display means, b) in the case in which said further information is provided to said recording means and c) in the case in which said further information is provided to said display means and to said recording means according to an output of said subscriber mode discriminating means; and

charge registering means for accumulating an amount output from said charging means.

6. A subscriber apparatus as recited in claim 5: wherein the charge registering means periodically informs the subscriber's charge to a server.

7. A subscriber apparatus comprising:

demodulating means for demodulating an information signal provided by a server; and

terminal control means for inputting a demodulated information signal of said demodulating means, outputting a signal to recording means which records said demodulated information signal in a recording medium in which a subscriber identification number is recorded and controlling supply of the output signal; and wherein

said terminal control means registers said subscriber identification number recorded in said recording medium of said recording means and an information identification number provided from said server in said terminal control means, when a subscriber finishes the recording of the information signal provided from said server in said recording medium of said recording means.

8. A subscriber apparatus as recited in claim 7; wherein said demodulated information signal is not output to said recording means, when the subscriber identification number is not recorded in the recording medium of said recording means.

9. A subscriber apparatus as recited in claim 7 or 8; wherein

an identification number of said recording means is used instead of the subscriber identification number.

10. A subscriber apparatus as recited in claim 9 wherein: said subscriber is determined from the identification number of said recording means; and

a charge is collected from said subscriber.

11. A subscriber apparatus as recited in claim 10 wherein when the subscriber records information provided from an information providing apparatus, said information can not be recorded unless the subscriber is approved by the server.

12. A method for providing information on demand comprising the steps of:

receiving a request from a subscriber requesting information;

transmitting the information to at least one of a subscriber display means and a subscriber recording means for displaying and recording the information respectively; and

charging the subscriber one of a plurality of amounts depending upon whether the transmitted information is intended for recording on said recording means.

wherein said request for information indicates whether the subscriber is recording said information on said recording means.

13. An apparatus for providing information on demand comprising:

receiving means for receiving a request from a subscriber for information.

5 sending means for sending the information to at least one of a subscriber display means and a subscriber recording means for displaying and recording the information respectively. and

charging means for charging the subscriber one of a plurality of amounts depending upon whether the transmitted information is intended for recording on said recording means.

wherein said request for information indicates whether the subscriber is recording said information on said recording means.

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1 14. An information on demand
2 system comprising:

3 a server apparatus for providing
4 information responsive to a request from a
5 terminal;

6 a recording reproducing
7 apparatus for recording the information into a
8 recording medium; and

9 charging means for charging a
10 different amount to said terminal when a) said
11 terminal receives the information or b) said
12 recording reproducing apparatus records the
13 information,

14 wherein when a unique
15 identification (ID) information is detected in
16 said recording medium, the information
17 provided from said server is recorded into
18 said recording medium.

1 15. An information on demand
2 system comprising:

3 a server apparatus for providing
4 information responsive to a request from a
5 terminal;

6 recording reproducing -
7 apparatus for recording the information into a
8 recording medium; and

9 charging means for charging a
10 different amount to said terminal when a)
11 said recording reproducing apparatus
12 reproduces the information recorded in the

13 recording medium or b) a further reproducing
14 apparatus reproduces the information
15 recorded in the recording medium.

1 16. The information on demand
2 system of claim 15, wherein when said
3 reproducing apparatus reproduces the
4 information recorded in the recording
5 medium, a descramble apparatus descrambles
6 the information after certifying whether the
7 recording medium includes an approved ID
8 information.

1 17. A recording medium used
2 for an information on demand system, said
3 information on demand system comprising:

4 a server apparatus for
5 providing information responsive to a
6 request from a terminal;

7 a recording reproducing
8 apparatus for recording the information into
9 a recording medium; and

10 a charging means for charging
11 a different amount to said terminal when a)
12 when said terminal receives the information
13 or b) said recording reproducing apparatus
14 records the information,

15 wherein when a unique
16 identification (ID) information is detected in
17 said recording medium, the information
18 provided from said server is recorded into
19 said recording medium.

1 18. A method for providing
2 information on demand comprising the steps
3 of:

4 providing information by a server
5 apparatus responsive to a request from a
6 terminal;

7 receiving the information by said
8 terminal from said server apparatus;

9 recording the information onto a
10 recording medium when a unique identification
11 (ID) information is detected in said recording
12 medium; and

13 charging a different amount
14 based on one of a) whether the information is
15 received by the terminal and b) whether the
16 information is recorded on the recording
17 medium.

1 19. A method for providing
2 information on demand comprising the steps
3 of:

4 providing information by a server
5 apparatus responsive to a request from a
6 terminal;

7 receiving the information by said
8 terminal from said server apparatus;

9 recording the information onto a
10 recording medium of a recording reproducing
11 apparatus; and

12 charging a different amount based
13 on one of a) whether the recorded information is

14 reproduced with the recording reproducing
15 apparatus and b) whether the recorded
16 information is reproduced with a further
17 reproducing apparatus.

20. The method of claim 19,
wherein when said further reproducing
apparatus reproduces the information recorded
in the recording medium, a descramble
apparatus descrambles the information after
certifying whether the recording medium
includes an approved ID information.